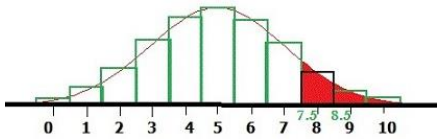
Distribution Approximations

Approximation	Conditions
Normal distribution as approximation to the binomial If X ~ B(n, p) and if n is large and/or p is close to ½, then X ~ N(np, npq) approximately. Include continuity correction 	np > 5 nq > 5 p ≈ ½
Poisson distribution as approximation to the binomial If X ~ B(n, p) and if n is large and p is small, then X ~ Po(np) approximately.	n > 50 np < 5
Normal distribution as approximation to the Poisson If X ~ Po(λ) and if λ is large, then X ~ N(λ, λ) approximately. Include continuity correction	λ >15